

ABSTRACT OF THE DISCLOSURE

CHECK VALVE FOR MICRO ELECTRO MECHANICAL STRUCTURE DEVICES

A check valve for micro electro mechanical structure devices (MEMS), and in particular pertains to a check valve which is adapted to be employed in connection with micro electro mechanical structure devices which are intended to be employed with supercritical fluids constituting working fluids. In a preferred embodiment, the check valve is equipped with a bypass channel including a freely moveable plug structure which, in the open position of the valve enables the ingress of supercritical fluids under high superatmospheric pressures, and subsequent to the filling of the system, let down to atmospheric pressure, causes the plug to be moved into a permanent valve-closed position.